PTO/SB/02A (10-01) Approved for use through 10/31/2002. OMB 0651-0032 lus sign (+) inside this box  $\longrightarrow$  + U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCEthe Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. TION FOR UTILITY OR **Attorney Docket Number** ABIOS.041A **DESIGN First Named Inventor** Mark F. Oldham PATENT APPLICATION (37 CFR 1.63) **COMPLETE IF KNOWN Application Number** 10/660,110 Declaration Declaration Submitted after Submitted OR Filing Date September 11, 2003 With Initial Initial Filing Filing (surcharge Art Unit 2878 (37 CFR 1.16(e))

required)

**Examiner Name** 

Unknown

		<u>.</u> .			
As the below named inventor, I hereby declare that:					
My residence, mailing address, and citizenship are as stated below next to my name.					
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:					
SYSTEM AND METHOD OF EXTENDING DYNAMIC RANGE OF A DETECTOR					
		(Title of the Invention)			
the specification of which		,			
is attached hereto					
OR					
Was filed on 09/11/03	as United States Applica	ation Number 10/660,110.			
I hereby state that I have revie	wed and understand the	e contents of the above identi	fied specification, inclu	ding the claims, as amended	
by any amendment specifically	referred to above.				
I acknowledge the duty to disc					
in-part applications, material in PCT international filing date of			date of the prior applic	cation and the national or	
I hereby claim foreign priority b	enefits under 35 U.S.C	. 119(a)-(d) or 365(b) of any f			
breeder's rights certificate(s), of States of America, listed below					
States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority					
is claimed.  Prior Foreign Application	Country	Foreign Filing Date	Priority	Certified Copy Attached?	
Number(s)	Country	(MM/DD/YYYY)	Not Claimed	YES NO	
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:					

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# **DECLARATION - Utility or Design Patent Application**

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued hereon.					
NAME OF SOLE OR FIRST INVE	NTOR:		A petition ha	s been file	ed for this unsigned inventor.
Given Name Mark F. (first and middle [if any])			Family Name Or Surname	Oldham	1
Inventor's and I am					Date 1/23/04
Residence: City Los Gatos		State C.	A Country	USA	Citizenship USA
Mailing Address 16500 Soda Spr	ings Road	l			
City Los Gatos	State	CA	Zip 9503	33	Country USA
NAME OF SECOND INVENTOR:  A petition has been filed for this unsigned inventor.					
Given Name Austin B. (first and middle [if any])			Family Name Tomaney Or Surname		
Inventor's Signature Date 1/26/CC					
Residence: City San Francisco		State C.	A Country	USA	Citizenship UK
Mailing Address 184 States Street					
City San Francisco	State	CA	<b>Zip</b> 9411	14	Country
Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB02A attached hereto.					

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**September 11, 2003** 

		Application Number	10/660,110	
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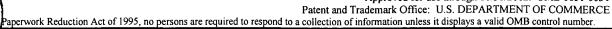
POWER OF ATTORNEY OR	First Name	d Inventor	Mark F. Ol	dham	
HORIZATION OF AGENT	Group Art	Unit	2878		
	Examiner I	Name	Unknown		
	Attorney D	ocket Number	ABIOS.041	A	
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\* Total of

forms if more than one signature is required, see below.\*

forms are submitted.



## STATEMENT UNDER 37 CFR 3.73(b)

App	blicant/Patent Owner: Mark F. Oldham and Austin	Tomaney
, .	olication No./Patent No. 10/660,110, Filed/Issue D	•
•	itled: SYSTEM AND METHOD OF EXTENDING D	•
		THAMIC RANGE OF A DETECTOR
	Applera Corporation , a <u>corporation</u> (Name of Assignee) (Type o	f Assignee, e.g., corporation, partnership, university, government agency, etc.)
stat	tes that it is:	
1.	the assignee of the entire right, title and interest	est; or
2.	an assignee of less than the entire right, title and the extent (by, percentage) of its ownership	
	In the patent application/patent identified above by	virtue of either:
A. OR	was recorded in the United States Patent and or for which a copy thereof is attached.	ent application/patent identified above. The assignment Trademark Office at Reel, Frame,
B.	[ ] A chain of title from the inventor(s), of the pate assignee as shown below:	ent application/patent identified above, to the current
	1. From:The document recorded in the United Stat Reel, Frame, or f	
	2. From:	To:
	The document recorded in the United Stat Reel, Frame, or f	
	3. From: The document recorded in the United Stat	To:
	Reel, Frame, or f	es Patent and Trademark Office at for which a copy thereof is attached.
	[ ] Additional documents in the chain of title are list	ed on a supplemental sheet.
[X]		of title are attached. document or a true copy of the original document) must 37 CFR Part 3, if the assignment is to be recorded in the
The	undersigned (whose title is supplied below) is authorized	d to act on behalf of the assignee.
	Jan. 26, 2004	Jeffery D. Frazier
	Date	Typed or printed name
		Signature
		Sr. Patent Attorney
		Title

# LIMITED AUTHORIZATION TO ACT ON BEHALF OF ASSIGNEE GARDING CERTAIN PATENT AND TRADEMARK MATTERS EFFECTIVE THROUGH: December 31, 2005

I, Paul D. Grossman, as Assistant Secretary of Applera Corporation ("Applera"), hereby authorize: Vincent M. Powers, Reg. No. 36, 246, Scott R. Bortner, Reg. No. 34,298, Jeffery D. Frazier, Reg. No. 34,601, and Andrew T. Karnakis, Reg. No. 27,909, all Senior Patent Attorneys, (1) to act on behalf of Applera, with regard to any matters before the United States Patent and Trademark Office, any foreign patent or trademark offices, and any international patent or trademark entities, (2) to execute power of attorney documents on behalf of Applera, to appoint and/ or establish any attorneys, agents, and/ or law firms to act on behalf of Applera, in any foreign or international patent or trademark applications filed with any foreign and/ or international patent or trademark offices, and (3) to execute assignment and ownership documents on behalf of Applera, with regard to any matters before the United States Patent and Trademark Office, any foreign patent or trademark offices, and any international patent or trademark offices.

any matters before the United States Patent and Tradem	ark Office, any foreign patent or
trademark offices, and any international patent or trader	nark offices.
Pane grossman	1-9-03
Paul D. Grossman	Date
Assistant Secretary, Applera Corporation	
State of California ) ) ss. County of San Mateo )	·
On Jan. 9, 2003 before me, Patti D. Selan.	Notary Public
personally appeared Paul D. Gossman, persona	ally known to me (or proved to me or
the basis of satisfactory evidence) to be the person whos	
instrument and acknowledged to me that he/ske/they execute	
capacity(168), and that by his/her/their signature on the ins	
upon behalf of which the person(x) acted, executed the instru	ment.

WITNESS my hand and official seal.

PATTI D. SELAN
Commission # 1210407
Notary Public - California
Santa Clara County
My Comm. Expires Feb 9, 2003

Notary Public

#### **ASSIGNMENT**

For good and valuable consideration paid to us, receipt of which is hereby acknowledged, we each:

Mark F. Oldham, a United States of America citizen, residing at 16500 soda Spines Road, Los Gatos, California 95033; and

Austin B. Tomaney, a United Kingdom citizen, residing at La States Street, San Francisco Co. 94114

do hereby sell, assign, and set over unto

### **Applera Corporation**

a Delaware corporation having a place of business at 850 Lincoln Centre Drive, Foster City, California (hereinafter "Assignee"), its successors, legal representatives and assigns, each of our entire right, title, and interest in and to any and all of our inventions and discoveries entitled:

#### SYSTEM AND METHOD OF EXTENDING DYNAMIC RANGE OF A DETECTOR

as described and/or claimed in our United States patent application, having an oath or declaration fully executed by us and, subsequently assigned Serial 10/660 f10 and filing date of September 11, 2003, by the United States Patent and Trademark Office; in and to the right to file patent applications in the name of Assignee, its designee, in all of our names, or in any other name or names, on the aforesaid inventions and discoveries in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified United States patent application under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models, and under any other international arrangement to which the United States now is or hereafter becomes a signatory; in and to any and all applications for Letters Patent, and any and all Letters Patent that issue on any of the aforesaid applications, and in and to any and all divisions, continuations, and continuations-in-part of any and all of said applications, and any and all reissues, renewals and extensions of any of said Letters Patent, such that the same right, title and interest to be held and enjoyed by Assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, shall be as full and complete as that that would have been held and enjoyed by us if this assignment and sale had not been made.

We further hereby covenant and agree, for the same consideration, whenever counsel of Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with said invention, or said application for Letters Patent, including interference proceedings, is lawful and desirable of that any division continuation or continuation-in-part of any application for Letters Patent, or any reissue of extension of any Letters Patent, to be obtained thereon, is lawful and desirable to sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

Name of inventor: Mark F. Oldl	
Inventor's signature	Date: 1/23/04
State of California ) County of San Mates )	- DO NOT RECORD - ss.
satisfactory evidence) to be the persacknowledged to me that he/ske/the	, 2004 before me, wila T. Kasan, Notary Public m, personally known to me (or proved to me on the basis of on whose name is subscribed to the within instrument and y executed the same in his/ber/their authorized capacity(ies), in the instrument the person(s), or the entity upon behalf of the instrument.
WITNESS my hand and official sea	1.
MILA T. KASAN Commission #1270202 Notary Public - Californi San Matea County My Comm. Expires Jul 9, 26	- The C. payson.

- DO NOT RECORD -

Name of inventor:	•	
Inventor's signature	mb/om 9	Date: 01/26/05.
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State of California  County of San Mat	) ss.	- DO NOT RECORD
County of San Mat		
personally appeared Au of satisfactory evidence acknowledged to me th	ustin B. Tomaney, person who at he/she/they executed r signature on the instru	onally known to me (or proved to me on the basis are name is subscribed to the within instrument and of the same in his/her/their authorized capacity(ies), the ument the person(s), or the entity upon behalf of ment.
WITNESS my hand and	d official seal.	·
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